Deter with	rmining the kinematic parameters of crankshaft presses speed-adjusting machanisms. Sbor. MOSSTANKIN no. 5:57-68							
.00	(Power presses)	(Machinery, Kinema	(MIRA 14:2) tics of)					

GORYAYNOV, V.I., kand, tekhn, nauk, dots.

Kinematics of a coining press. Sbor. MOSSTANKIN no. 5:69-75

(MIRA 14:2)

(Power presses)

(Machinery, Kinematics of)

45244

\$/771/61/000/000/005/006

1.1310

AUTHORS: Goryaynov, V.I., Lanskoy, Ye.N., Candidates of Technical Sciences.

TITLE: Crank-driven equipment.

SOURCE: Sostoyaniye kuznechno-shtampovochnogo proizvodstva.

Ed. by V.T. Meshcherin. Moscow, VINITI, 1961, 220-292.

TEXT: The paper provides a state-of-the-art survey of the design, construction, and employment of crank-type equipment for forging and press-forming. The present abstract is focused primarily on the section dealing with developments in the USSR and the Soviet-bloc area. Among the current developmental trends in this field, the aggregatization of crank-type machines and the assembling of machines of any desired size from standard component parts by the Barnaul factory of mechanical presses (USSR) and the Bad-Salzung plant (GDR) are cited. The multidisk clutch of the Voronezh plant imeni Kalinin is described and illustrated (pp. 228-230). The NKMZ (New Kramatorsk machine-building plant) produces mechanical forging presses with an applied force of 4,000, 6,300, and 8,000 tons. A general-view photograph of the 8,000-ton press is shown in Fig. 27. The carcass consists of welded components bolted into a dismountable aggregate. The press has a double-acting drive. Two independent electric motors (EM) drive the machine via

Card 1/3

Crank-driven equipment.

S/771/61/000/000/005/006

two disk-type friction clutches contained within the gears on either side of the crankshaft. The clutches are actuated electropneumatically. Along with each clutch there is a band brake with pneumatic brake releases. The throw is mechanically regulated by an independent EM. The lower pusher-ejector is hydraulically driven. The machine has a central grease lubrication. The high rigidity of the press is reflected in its adequate accuracy. The height of the press is 14,400 mm, the stroke 507 mm, the number of strokes per minute 35. All New Kramatorsk forging presses employ the original welded stand. The Voronezh plant of heavy mechanical presses produces crank-driven forging presses from 630 to 2,500 tons. The stand is welded out of cast-steel and thick-sheet rolled components. The drive operates through a disk-type friction clutch located on the main shaft; a band brake is attached to the opposite end of the shaft. Clutch and brake are electropneumatically actuated. The lower pusher-ejector on the large presses (2,000 and 2,500 tons) is hydropneumatically actuated. The number of strokes per minute in these presses is 60-90, their height above the floor is 4,270-6,200 mm, their weight 35-143 tons. A front and side-view sketch is shown. The stand of the 4,000-ton embossing press produced by the NKMZ (p. 268) consists of two parts connected by tie bolts. The table and both columns are cast of inoculated cast iron. The electropneumatically actuated disk-type friction clutch and analogous brake are installed on the first

Card 2/3

Drop-forging equipment.

S/771/61/000/000/004/006

from free forging toward die forging, the scope of free forging appears to be primarily focused on repair plants. The GOST All-Union Standard limits the weight of dropping parts of forge hammers to 5 tons. Only exceptionally are larger forge hammers made. Pneumatic hammers are more economical and more highly productive than steam-air hammers; hence the construction of pneumatic hammers with 1- to 2-ton dropping parts is entirely feasible (USSR hammers up to 0.75t are made, with a GOST maximum of 1 ton). Manipulators must be developed and introduced. The experience of Uralmashzavod and foreign firms is encouraging. Die forging: For small batches of relatively small forgings it is advisable to construct and develop inexpensive universal die-forging single-acting hammers with a weight of the dropping mass of up to 4 tons. These may be chain-, air-, or hydraulically driven. For parts 15 kg or heavier and parts made of high-temperature steels, double-acting steam-air hammers with 5- to 20-ton dropping weights are to be used. The latest improvements should be applied to the design of such hammers, including heavier and stronger anvils, optimal column design, control boosters, etc. The hammer should be erected on vibration-insulating foundations. For the final dieforging of otherwise preformed heavy billets, anvilless hammer with impact energies of 10 ton-m or more should be used. For extra-heavy billets (200-300 kg or more) anvilless hammers with impact energies of up to 150 ton-m are recommended. There are 19 figures and 19 references (2 Russian-language Soviet, 3 German, and

ASSOCIATION: None given.

OORYAYNOV, V.I., kand. tekhn. nauk, dotsent

Determining drawing press force parameters according to industrial specifications. Sbor. MOSSTANKIN no.7:122-129 '64.

(MIRA 17:11)

GORYAYNOV, V.V.

AUTHORS:

Kosinskiy, V.M., Engineer; Goryaynov , V.V. 117-58-6-22/36

TITLE:

The Komsomol-Innovators of the Yuzhuralmashzavod (Komsomol'

tsy-novatory Yuzhuralmashzavod)

PERIODICAL:

Mashinostroitel', 1958, Nr 6, pp 32-33 (USSR)

ABSTRACT:

A.M. Karyukin and N.M. Goryunov, members of the Komsomol, who made some innovations in the production process of the South Urals Machine Construction Plant, are mentioned. Production has been increased 2 times by these innovations. The plant produces rolling-mill equipment. There is one photograph.

ASSOCIATION: Yuzhno-ural'skiy mashinostroitel'nyy zavod (South-Urals Machine

Construction Plant)

AVAILABLE:

Library of Congress

Card 1/1

1. Industry-Production-USSR

"Determination of Lactic Acid in Milk and Milk Products." 1933
"Determination of Prolonged Pasturization of Milk by the Shar-Gorli Process." 1934

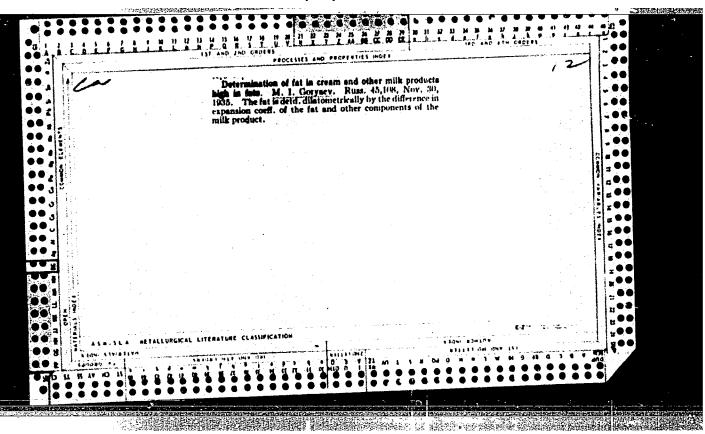
"Research on Milk and Products of Its Processing" 1934

from biography on author, published in
Vestnik Akademii Nauk Kazakhstov SSR, No 12 (117), Dec 1954, pp 39-41

GORYAYEV, Mikahil Ivanovich

"Simple Method of Determination of Chlorine Content according to Drost" 1934 from biography on author, published in

Vestnik Akademii Nauk Kazakhstov SSR, No 12 (117), Dec 1954, pp 39-41



WORYAYEV, Mikhail Ivanovich

"A Manual for Laboratory Wprkers in Butter and Cheese Producing Plants" 1935 (2nd Edition, 1947)

from biography on author, published in Vestnik Akademii Nauk SS Kazakhetov SSR, No 12 (117), Dec 1954, up 39-41

"Effect of Bichromate of Potassium in Canning of Milk on the Determination of the Percentage of Fat" (1935)
from biography on author, published in

Vestnik Akademii Nauk Kazakhstov SSR, No 12 (117), Dec 1954, pp 39-41

"Electroneutralization of Milk" 1935
from biography on author, published in
Yestnik Akademii Nauk SSR Kazakhstoy SSR, Vol 12 (117), Dec 1954, pp 39-41

"Alkaline Index and Alkalinity in Milk" 1936
from biography on author, published in
Vestnik Akademii Nauk Kazakhatov SSR, Nol 12 (117), Dec 1954, pp 39-41

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516410005-9"

"Concerning the Addition of Aromatics to Butter" 1936
from biography of author, published in

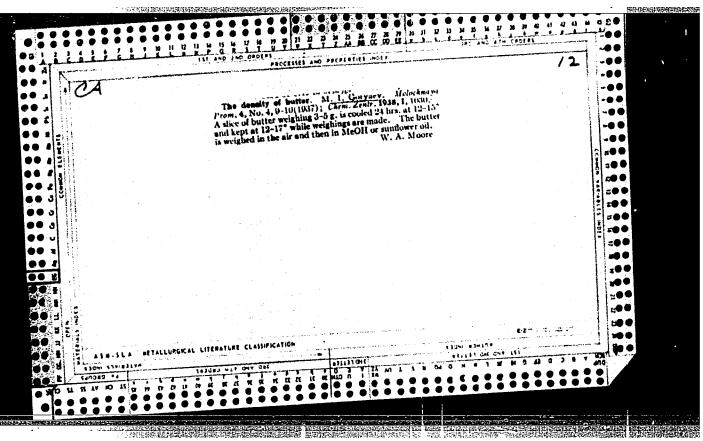
Vestnik Akademii Nauk Kazakhstov SSR, No 12 (117), Dec 1954, pp 39-41

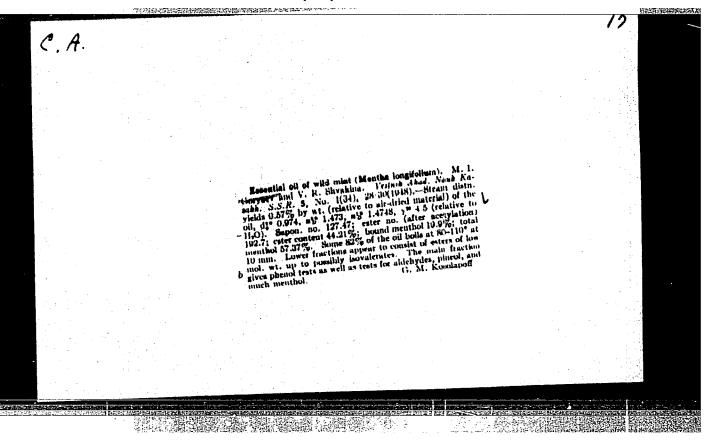
GORYAYEV, Mikhail Ivanovich

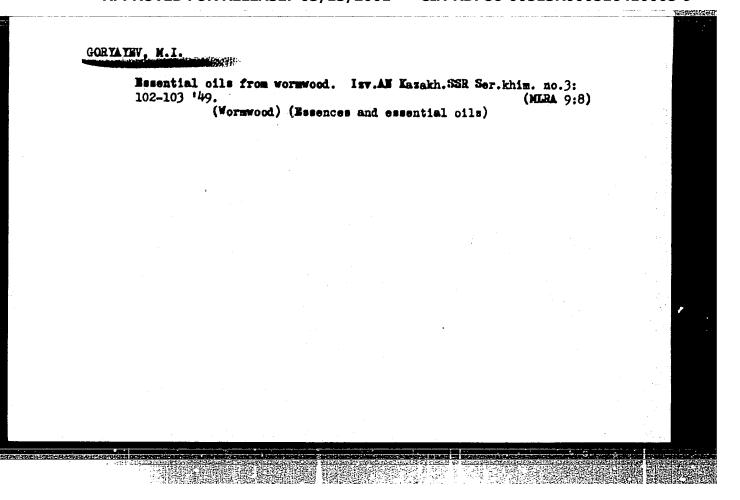
"Determination of Sugar in Milk by the Iodometric Method" 1937

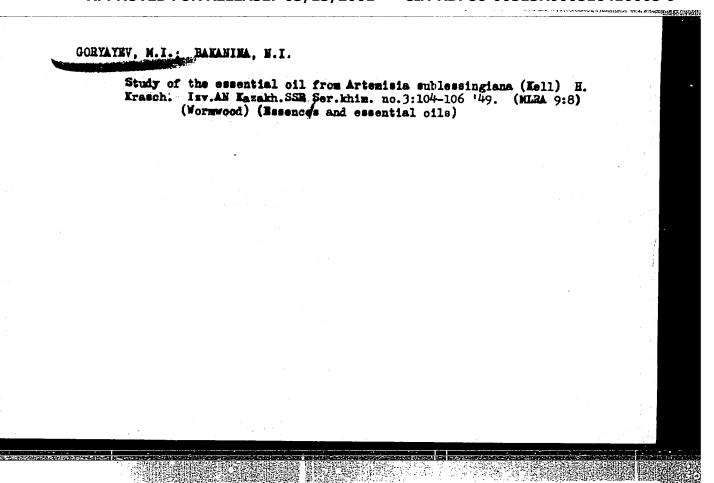
from Biography on author published in:

Westalk Avademii Nauk Kazakhetoy SSR, No 12 (117), December 1954, pp39-41









"The Essential Oils of USSR Plants (Efirmyye Masla Flory SSSR), Alma-Ata, 1952, 360 pp.			M. I.							an V		1052	280	
pp.	4		Essential	Oils	of USSR	Plants	(Efirnyye	Masla I	ctory S	SSR),	Alma-Ata,	1972,	300	
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USSR/ Chemistry - Physical chemistry

Card 1/1 Pub. 123 - 7/12

Authors : Sokol'skaya, A. M., Candidate of Chem. Sce.

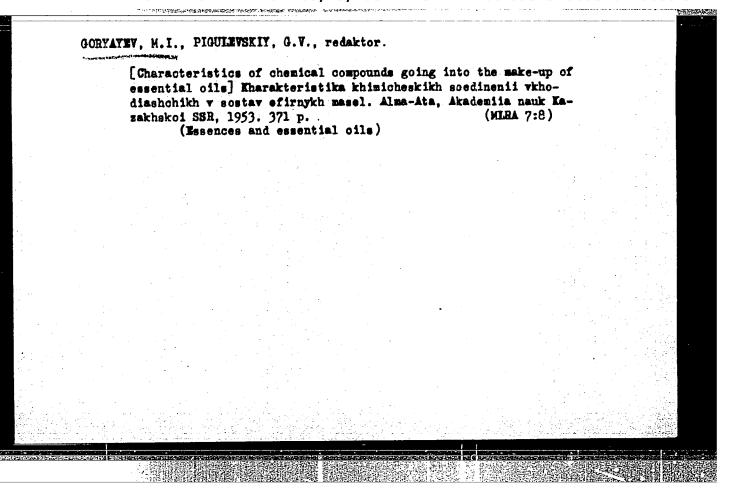
Title : Stereid saponin

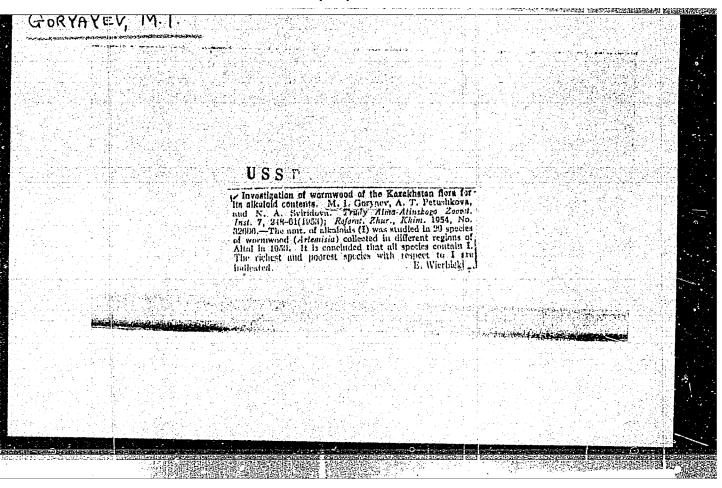
Periodical : Vest. AN Kas. SSR 6/123, 69-84, June 1952

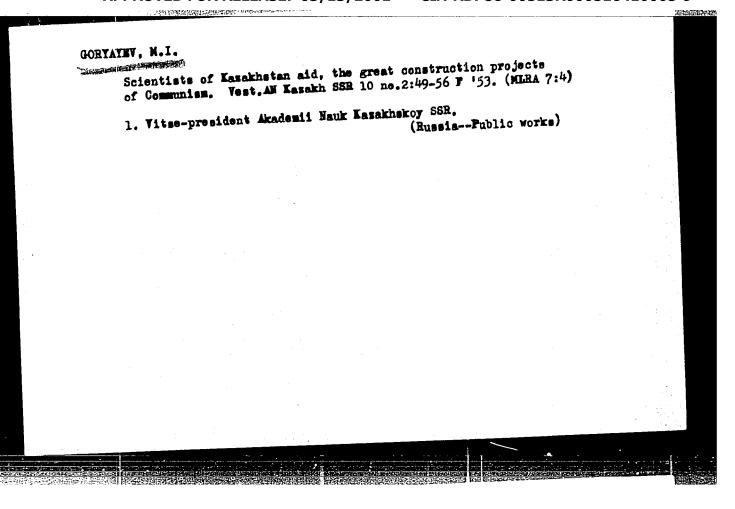
Abstract : The molecular structure of steroid saponins, which are a group of ghycosides, is described. Fifty references: 4 USSR, 11 German and and 35 USA (1916-1954). Tables.

Institution:

Presented by: Active Member of the Acad. of Scs., Kaz. SSR., M. I. Goryaev







TEPLYAKOVA, E.; KARAGUYSHIYEVA, D.; GORYAYEV, M.I., deystvitel'nyy chien.

Bacterial fertilizers and their effictiveness in the soils of Kazakhstan.

Vest.AN Kazakh.SSR 10 no.6:60-67 Je '53. (MLRA 6:8)

1. Akademiya nauk KarSSR (for Goryayev).

(Kazakhstan—Soil inoculation) (Soil inoculation—Kazakhstan)

CHIEHEVERIT, A.L.; GORYAYEV, M.I.

Aeroionisation of buildings. Vest.AE Kasakh.SSR 10 no.9:34-44 5 '53.

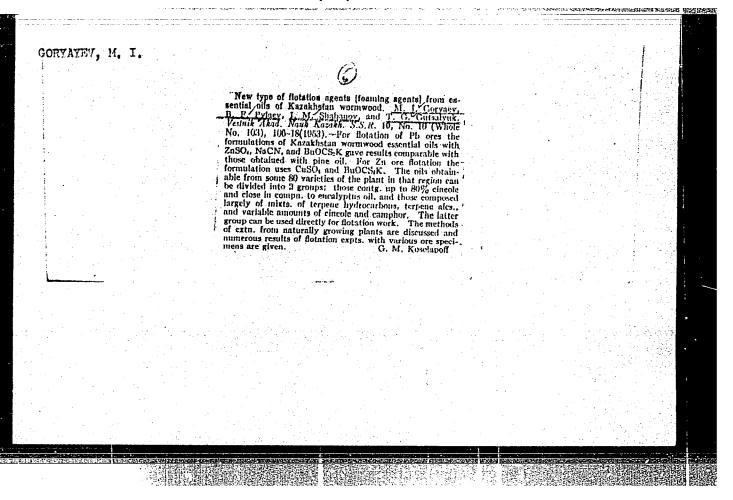
(NURA 6:11)

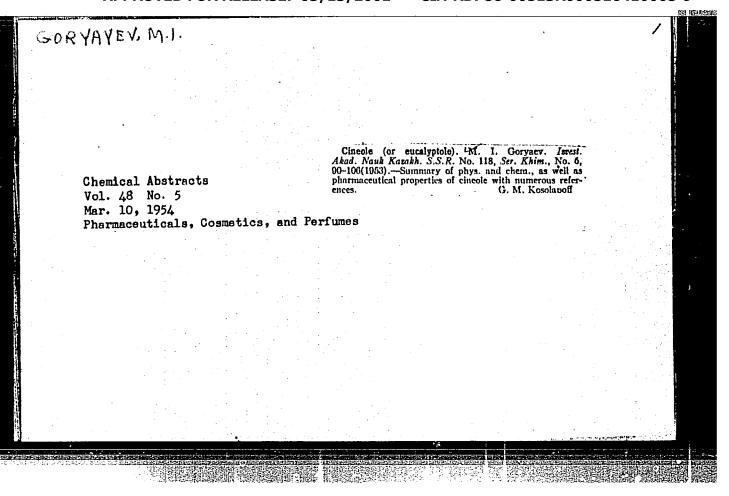
1. Deystvitel'nyy chlen Akademii namk Kasakhskoy SSR (for Goryayev).

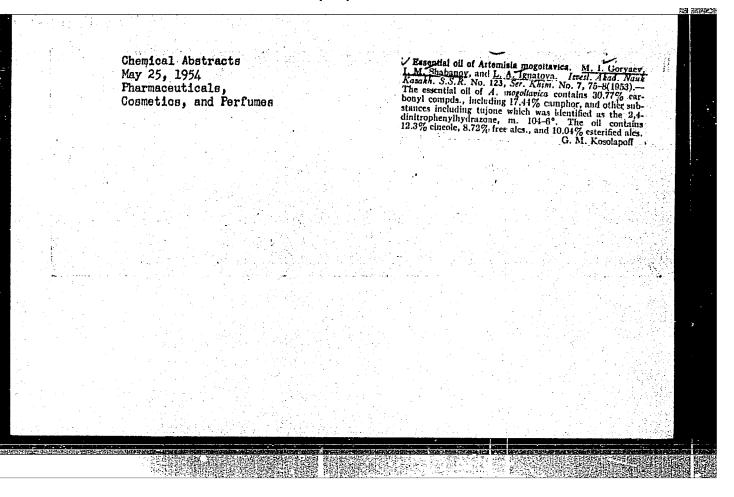
(Air, Ionised) (Air conditioning)

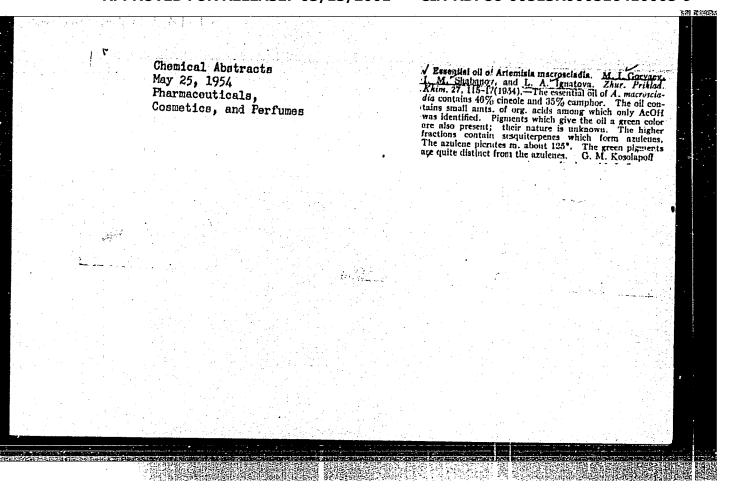
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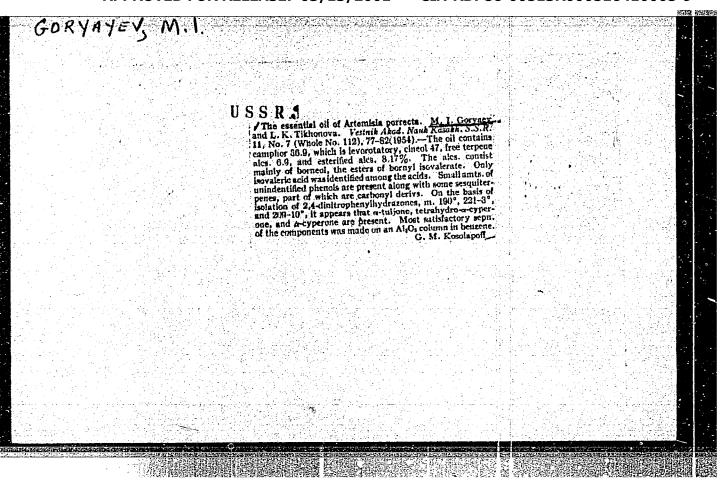
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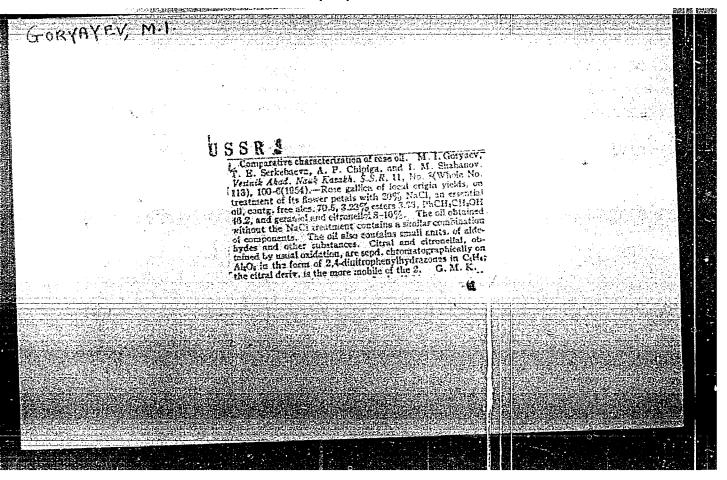












USSR/Scientific Organization

Card 1/1 Pub. 123 -: 1/15

Authors : Goryaev, M. I., Vice President of the Acad. of St.s. of the Kaz. SSR

Title : The Academy of Sciences of the Kaz. SSR on the eve of its new election

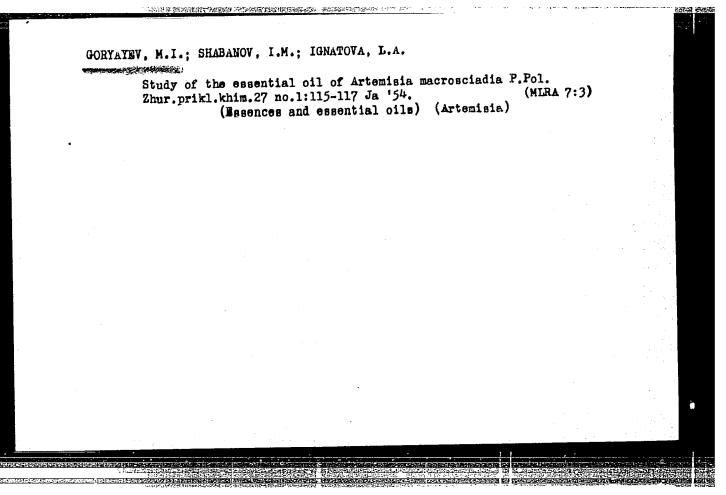
Periodical : Vest. AN Kaz. SSR 11/10, 3-15,0ct 1954

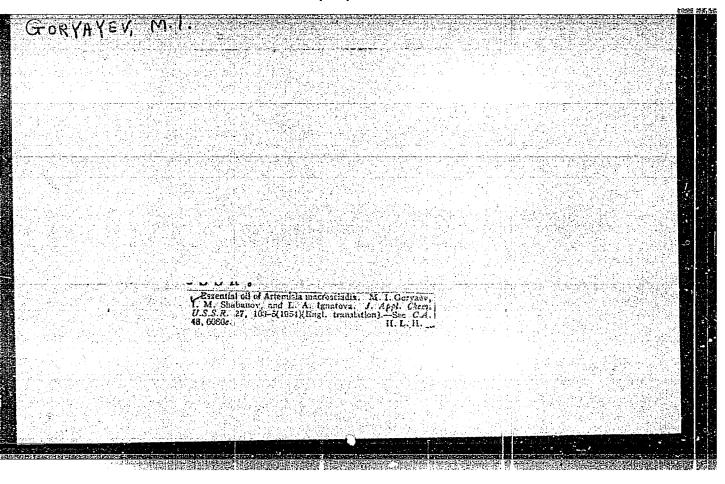
Abstract : A short sketch is presented of the history (7 years) of the Academy of Sciences of the Kaz. SSR in connection with the forthcoming election of Academy members.

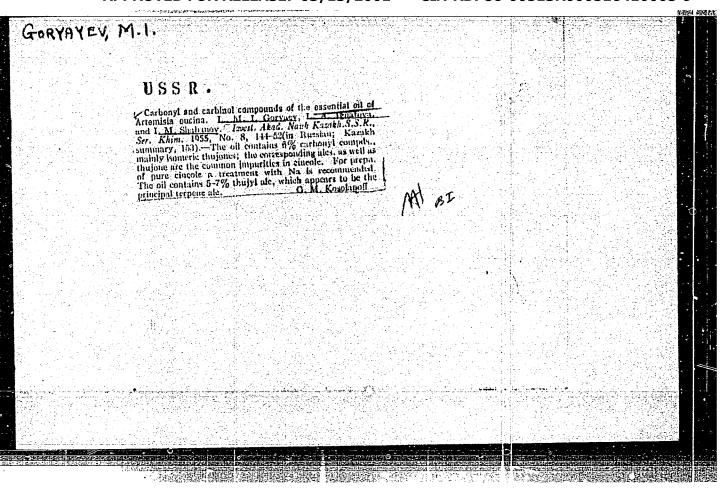
Institution:

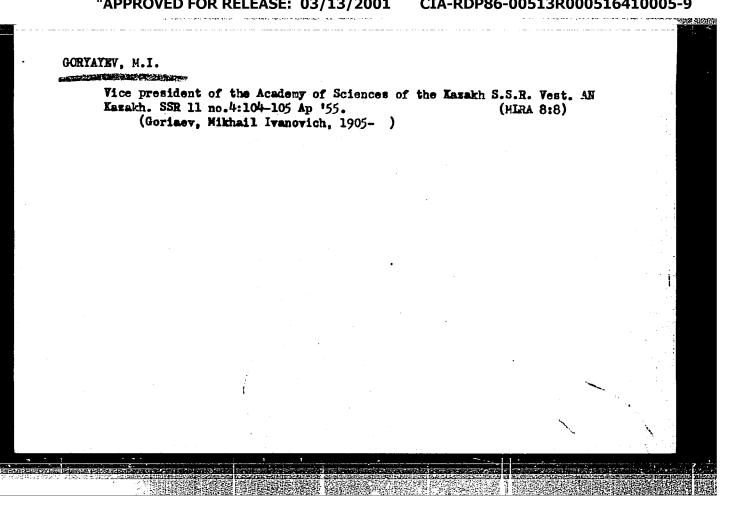
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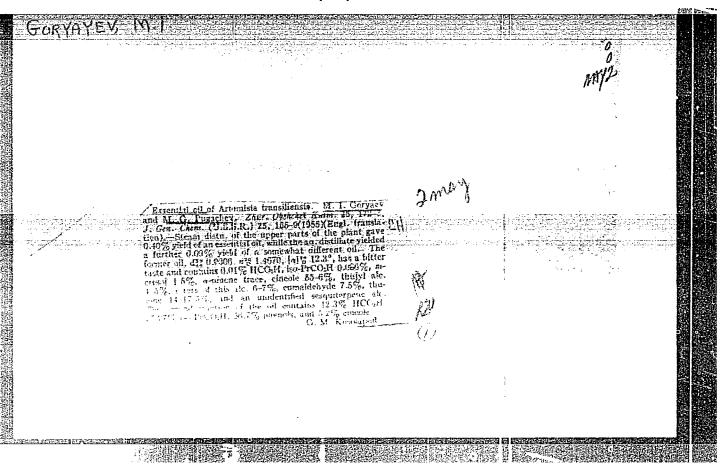
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GORYAYEV, M.I.	
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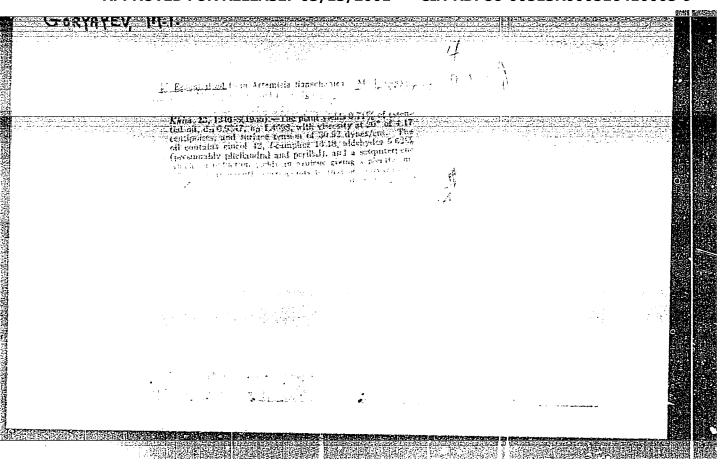


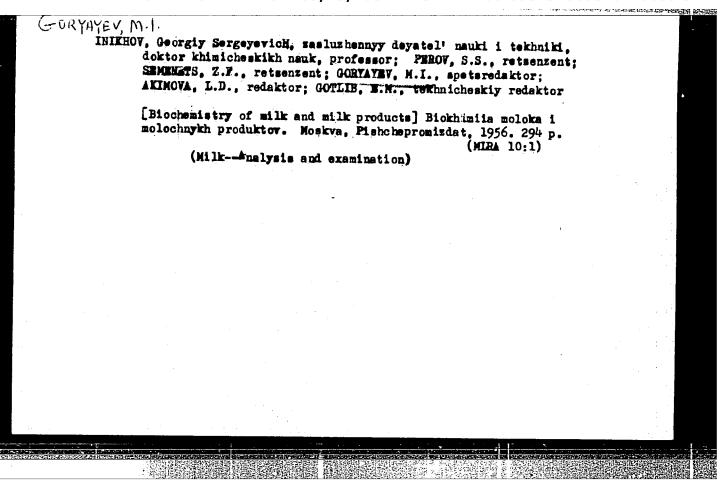




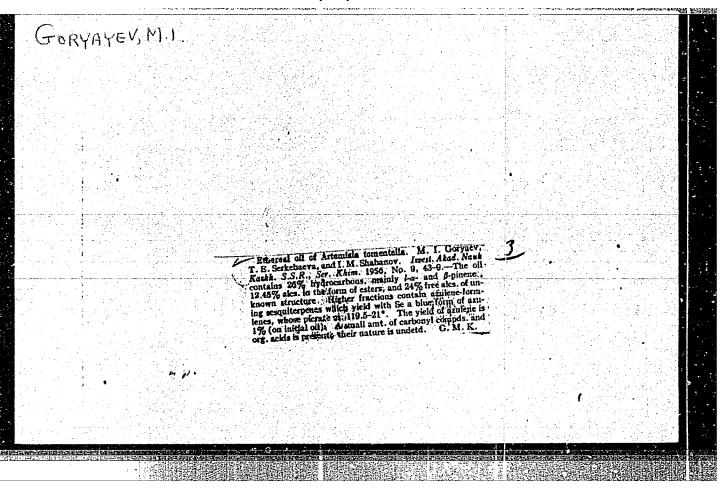


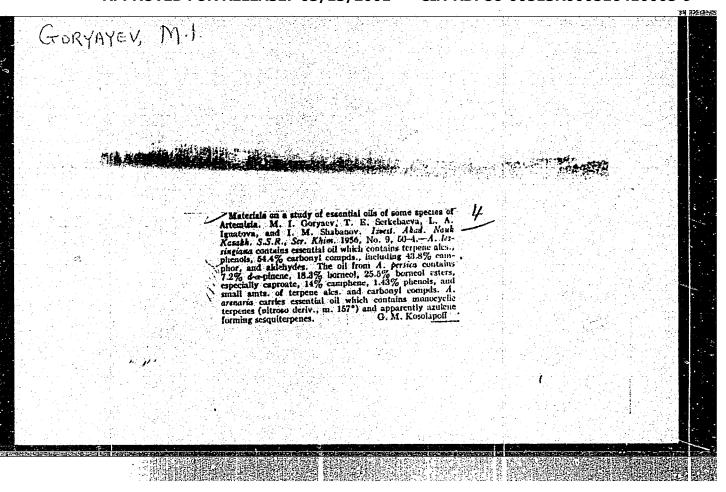


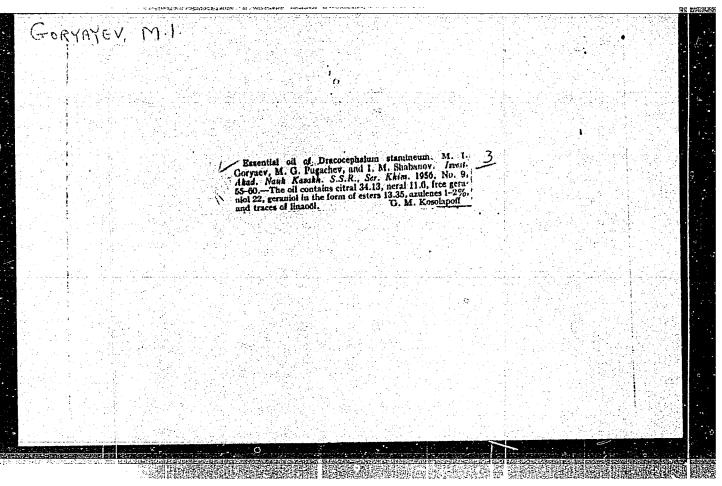


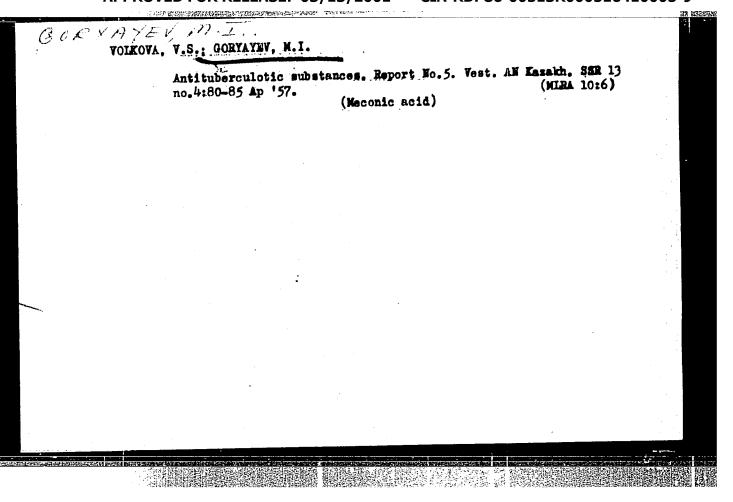


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GORYAYEV,	M.J.				
	Invest. Akad. Nam. 33-42.—The oil of and some fenchor	Artemisia santolinofila. M. I. Gory ta, M. G. Pugachev, and I. M. Shaba & Kasakh. S.S.R., Ser. Khim. 1956, N. ontains carbonyl compids. (mainly thu me) 30, camphor 3.7, free alcs. (m. jyl alc., 2.3% borneol, and some for 10.24; cincole 1, org. ackis (HCO ₃ H	inov. [o. 0, rjone aziniy		
	isovalerie acid) 8, unidentified terp A qual, test for a	19.24, cincole 1, org. ackls (HCO _i H) phenols (mainty p-McC ₂ H ₂ OH) 9%, ness and azulene-forming sesquiterp klehydes was found. G. M.	and enes.		
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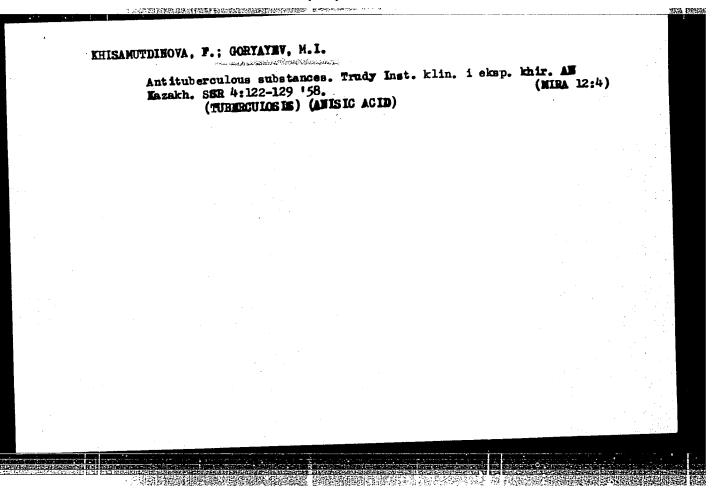








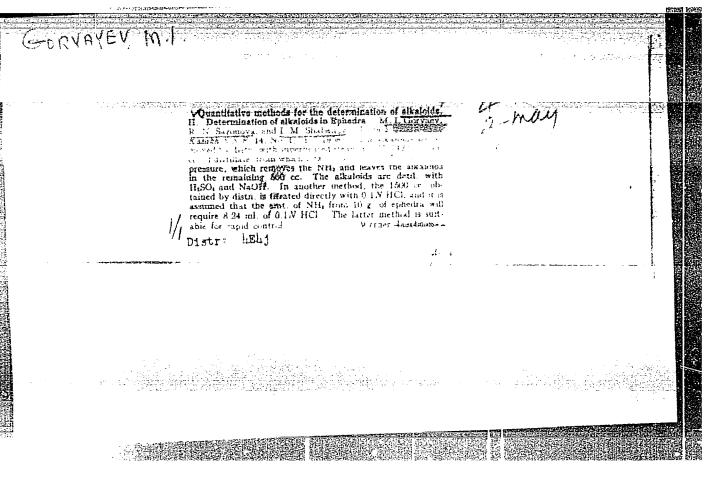
Male: SHERMAN, P.N., red.; MAGIBIN, P.A., tekhn, red. [Herbicides] Gerbitsidy, Alma-Ata, Kasakhakoe gos. izd-vo, 1958. (MIRA 11:10) (Herbicides)

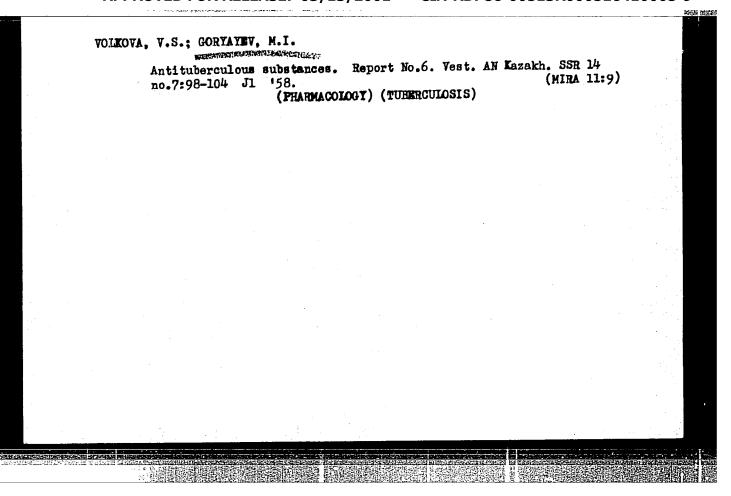


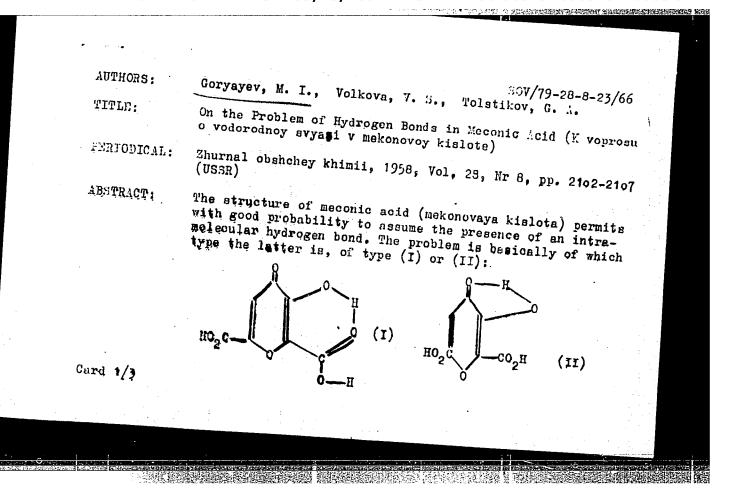
VOLKOVA, V.S.; CONYATEV, M.I.

Antituberculous substances. frudy Inst. klin. i eksp. khir. AE Karakh.
(NIRA 12:4)

(TUHERCULOSIS) (MECONIC ACID)







On the Problem of Hydrogen Bowls in Meconic Acid

SOV/79-28-8-23/66

As is known (Refs 1-3), the presence of an intranolecular hydrogen bond in the molecule which contains a hydroxyl and a carboxyl group in the orthoposition causes a considerable change in the behavior of these groupings. No anomaly is detected in the molecular weight of phenols which contain this bond when they are determined in a neutral solvent, i.e. no reduction of the acidity or a complication of the ester formation. The participation of the carboxyl group in the intramolecular hydrogen bond leads to the increase of the acidity, to a complication of the ester formation, and to a facilitation of the decarboxylation. On the strength of this position the authors investigated several derivatives of the 3-oxy-4-pyrons all of which were obtained from the meconic acid which was produced from the wate products of opium production, the "meconates". A stable intramolecular hydrogen hond was found to exist in meconic acid. This bond is an ingredient of a six-membered cycle. The dissociation constants of meconic acid, of comenic acid (komenoveya kislota), and of pyromeconic acid according to the potentiometric titration were determined. The ester of 3-methoxy-4-pyrone-6-6arboxylio acid was obtained which is not yet described in the publications. Figure ! gives

Card 2/3

On the Froblem of Hydrogen Bonds in Meconic Acid

901/79-28-8-23/66

the scheme of the molecule of the meconic acid with the mutual distance of the atoms. There are 4 figures, 2 tablec, and

12 references, 7 of which are Soviet.

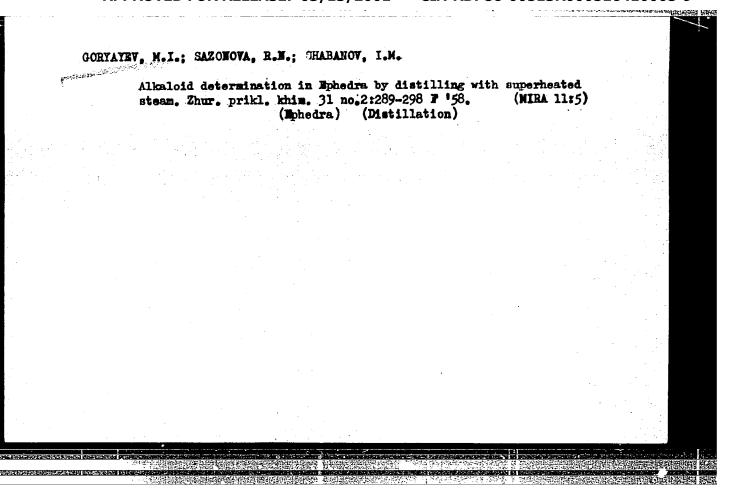
ASSCCIATION: Kazakhskiy gosudarstvennyy universitet

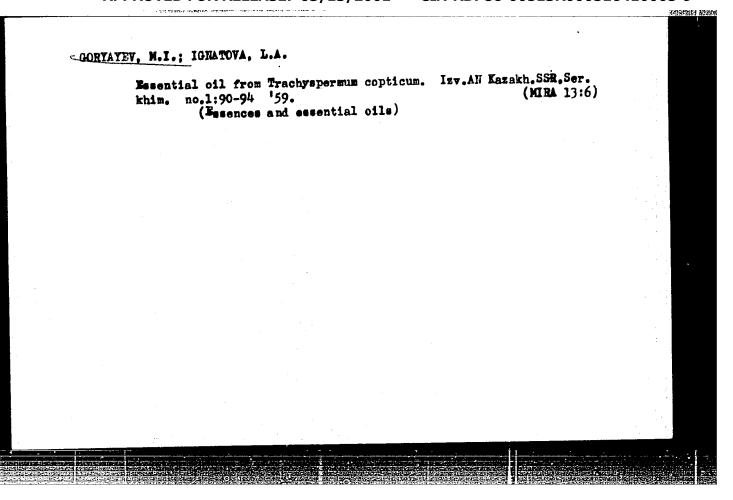
(Kazakh 45 State University)

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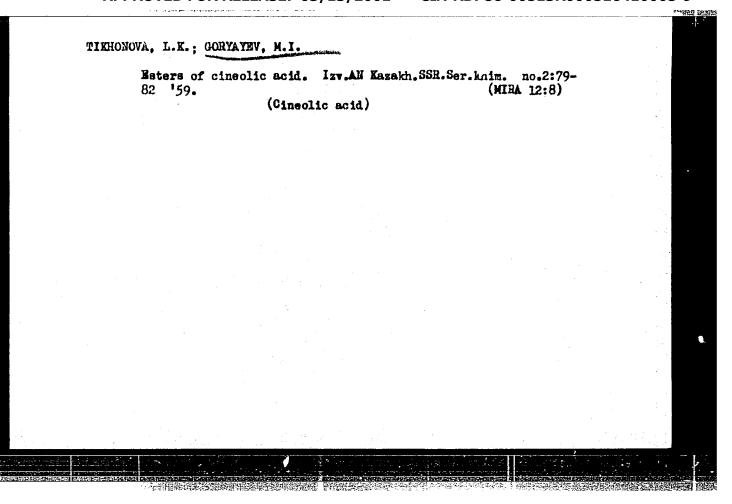
January 22, 1958

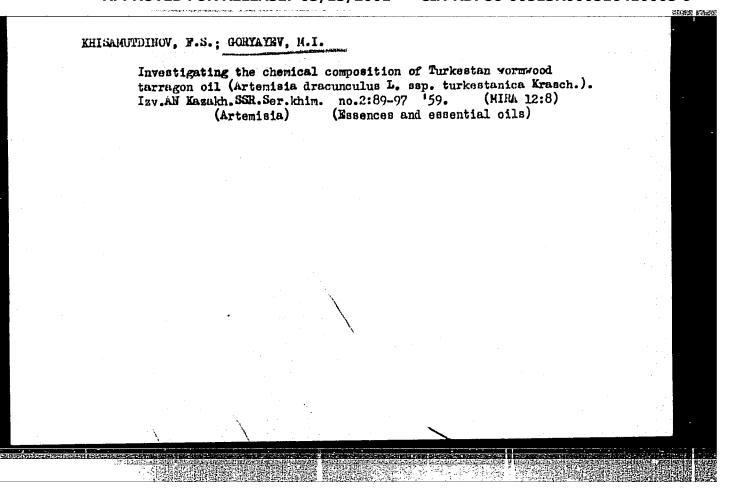
Card 3/3





GORYAYEV, M.I. DZHALILOV, D.R. Possibilities for industrial production of thujone. .Izv.AM: Kazakh.SSR.Ser.khim. no.2:83-88 '59. (MIBA 12:8) (Thu jone)





GORYATEV, M.I.; POLYARDV, P.P.; SHARABOV, I.M.

Organisation, methods, and results of expeditionary research on vegetable raw materials. Trudy Inst. khim. nauk AM Kasakh. SSR 4:3-16 '59. (MIRA 13:2)

(Kasakhatan-Botany, Bonomic)

(Soviet Central Asia-Botany, Ronomic)

GORYAYEV, M.I.; SAZONOVA, R.N.; POLYAKOV, P.P.

Work results of the expedition for the study of wild aromatic plants in southern Kasakhstam, organized by the Academy of Sciences of the Kasakh S.S.R. in 1951. Report No.2. Trudy Inst. khim. nauk AN Kasakh. SSR 4:17-23 '59.

(Kasakhstan-Wormwood)

GORYATEV, M.I.; SAZONOVA, R.N.; POLYAKOV, P.P.

Work results of the expedition of 1952 for the study of aromatic plants in Kasakhstan and Central Asia. Trudy Inst. khim. nauk AN Kasakh. SSR 4:24-29 '59. (MIRA 13:3)

(Kasakhstan--Wormwood) (Soviet Central Asia--Wormwood)

GORYAYEV, M.I.; SATDAROVA, E.I.

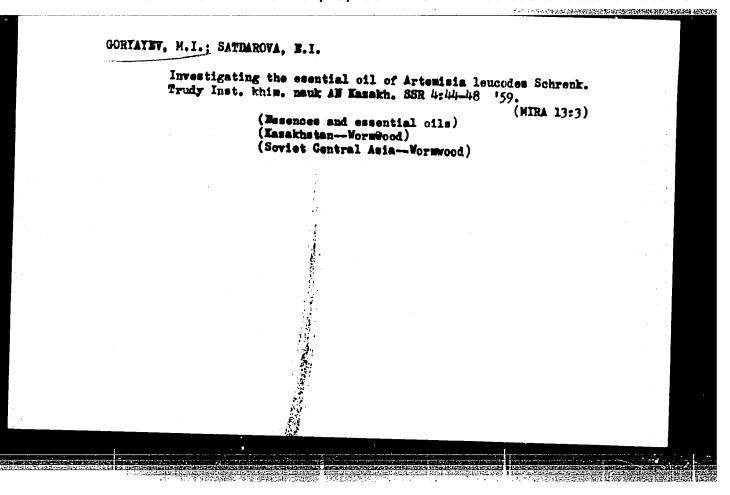
Investigating the essential oil of Artenisia Serotina Rge.
Trudy Inst. khim. nauk AN Masakh. SSR 4:37-47 '59.

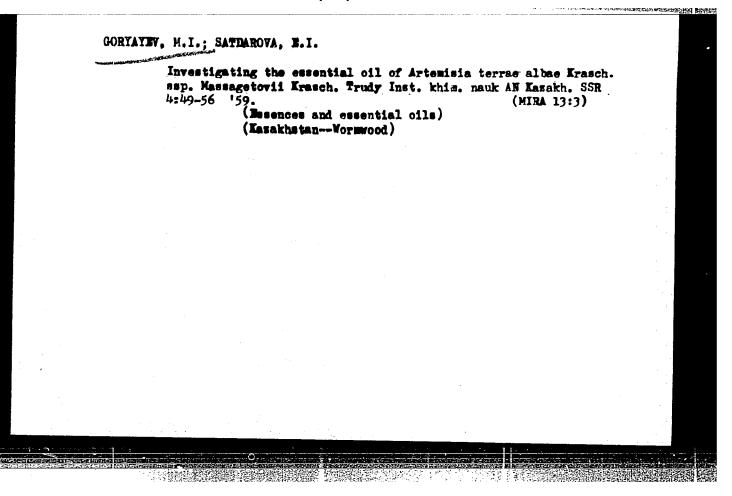
(MIRA 13:3)

(MIRA 13:3)

(Sasakhutan-Vormood)

(Soviet Central Asia-Wormood)





GORYATEV, M.I.; DZHALILOV, D.R.

Investigating the essential oil of Juniperus sabina L. Trudy Inst. khim. nauk AN Kazakh. SSR 4:57-67 '59.

(Kasakhstan--Juniper) (Essences and essential oils)

GORYATEV, M.I.; SAZONOVA, R.N.; POLYAKOV, P.P.; RELOVA, Ye.A.

Santonin-bearing wormwood species of the subgenus Seriphidium (Bess.)
Rouy from Kasakhstan and Gentral Asia. Trudy Inst. khim. nauk AN Kasakh.

SSR 4:68-96 '59.

(MIRA 13:3)

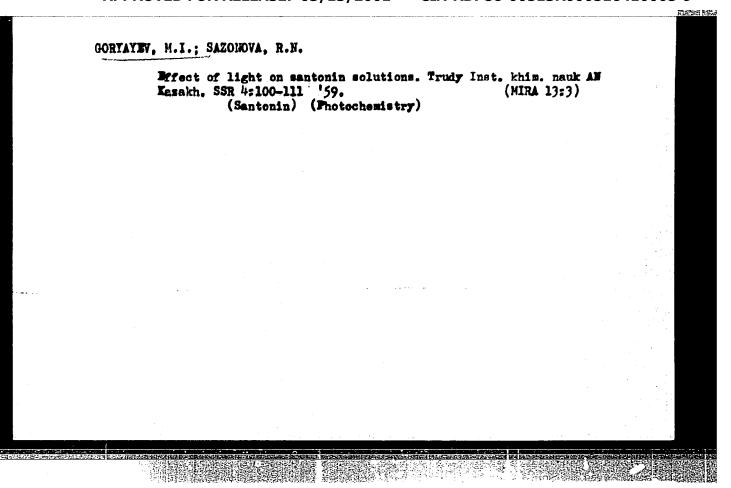
(Santonin) (Kasakhstan-Wormwood) (Soviet Central Asia-Wormwood)

GORYAYEV, M.I.; KRUGLYKHINA, G.K.; POLYAKOV, P.P.; SHABANOV, I.M.

Artemisia kurramensis Qasilb. as new source of santonin and thujone.
Trudy Inst. khim. nauk AN Kasakh. SSR 4:97-99 '59.

(MIRA 13:3)

(Santonin) (Thujone) (Kasakhstan-Wormwood)



GORYAYEV, M.I.; KRUGLYKHINA, G.K.; SATDAROVA, E.I.; KURINNAYA, N.V.;
SHABANOV, I.M.; FOLYAKOV, P.P.

Materials on the Study of alkaloid resources in the flora of
Kasakhstan and some regions of Central Asia. Trudy Inst. khim.
nauk AM Kazakh. SSR 4:112-122 '59.

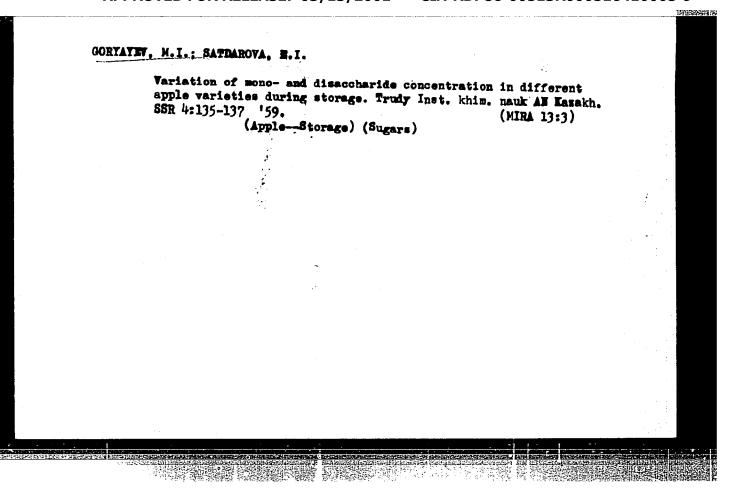
(MIRA 13:3)

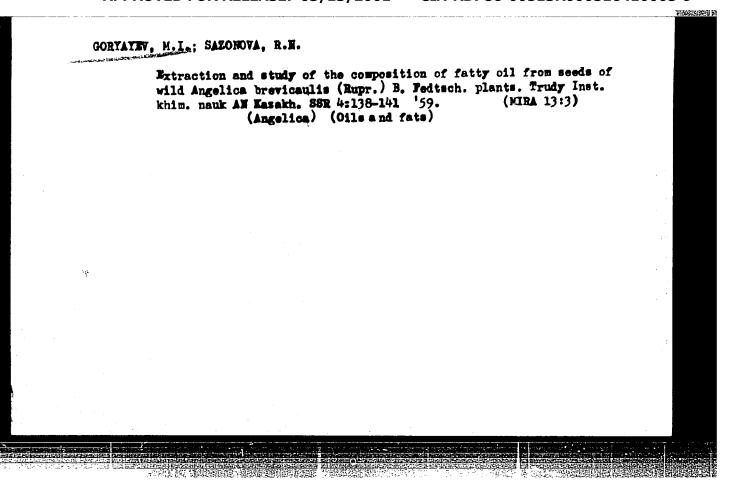
(Kasakhstan—Botany, Economic)
(Soviet Central Asia—Botany, Economic)
(Alkaloids)

GORYATEV, H.I.; SAZONOVA, R.N.; SATHAROVA, E.I.; SHARANOV, I.M.

Constancy of amide and ammonia nitrogen concentration in the ephedra in connection with alkaloid synthesis in plants. Trudy Inst. khim. nauk AN Kazakh. SSR 4:123-126 '59. (MIRA 13:3)

(Iphedra) (Alkaloids)





5.3900 75683 SOV/80-32-10-32/51

AUTHORS: Goryayev, M. I., Moshkevich, S. A., Sazonova, R. N.,

Shabanov, I. M.

TITLE: Determination of the Ephedra Alkaloids by the Oxalate

Method

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 10, pp 2313-2320

(USSR)

ABSTRACT: This is the third paper on the quantitative determination

of alkaloids and deals with the determination of alkaloids of ephedra. The method is based on the solubility of alkaloids of ephedra, using oxalic acid. The oxalate of pseudoephedrine is readily soluble in cold water, but the oxalate of ephedrine is almost insoluble in water. For this purpose the alkaloid of ephedra is titrated with 2% oxalic acid until neutral to litmus. Determination of ephedrine and pseudoephedrine can be carried out by two methods: (1) alkaloids were isolated by the usual standard method, by infusion with

1% H2SO1 and extraction with ether; (2) alkaloids were iso-

Card 1/2 lated from the plant by steam distillation. Besides

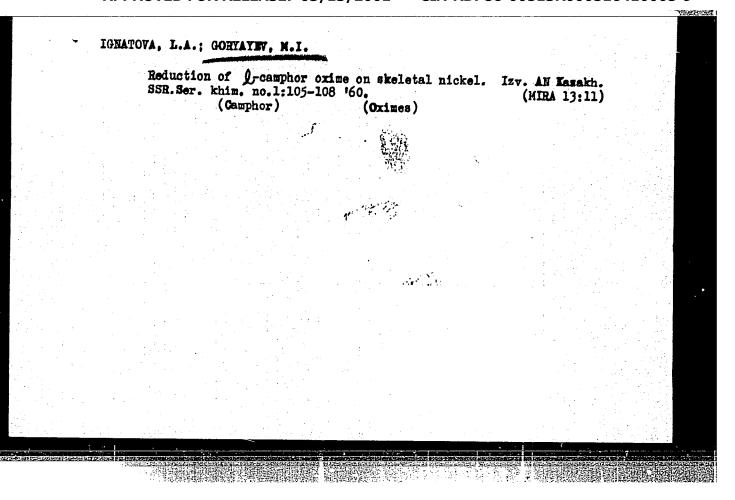
Determination of the Ephedra Alkaloids by the Oxalate Method 75 583 S0v/80-32-10-32/51

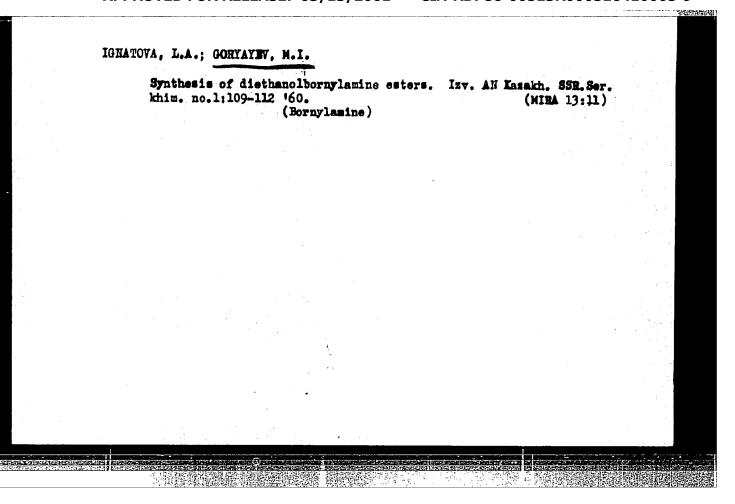
ephedrine and pseudoephedrine in the mixture of the ephedra alkaloids, insignificant amounts of 1-norephedrine and 1-N-methylephedrine were found. The basic ephedrine was isolated from the ephedrine oxalate. Ephedrine hydrochloride has mp 215-216°. A mixed mp determination of the obtained sample with ephedrine hydrochloride showed no depression. Khorenko, E. A., took part in the development of the above methods. There are 5 tables; and 14 references, 5 Soviet, 2 U.S., 3 German, 1 Chinese, 1 Jaranese, 1 French, 1 British. The 3 U.S. and British references are: Shou, T. Q., J. Biol. Chem., 70, 109 (1926); Black, O. F., and Kelly, J. W., Am. J. Pharm., 99, 12, 748 (1927); Smith, S., J. Chem. Soc., 2056 (1927).

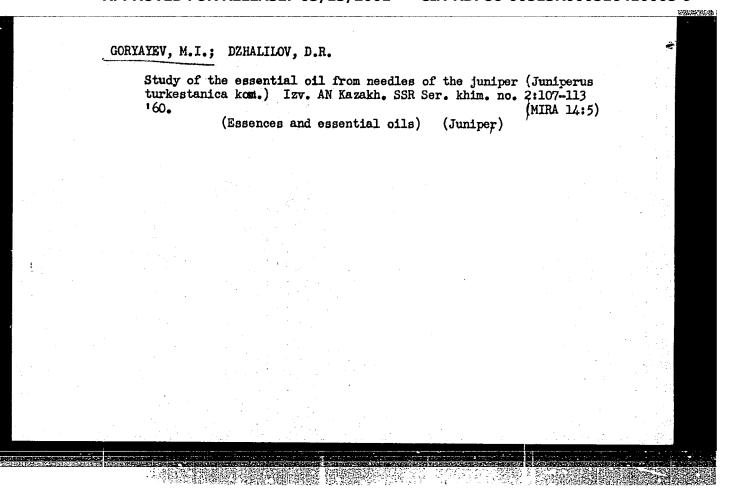
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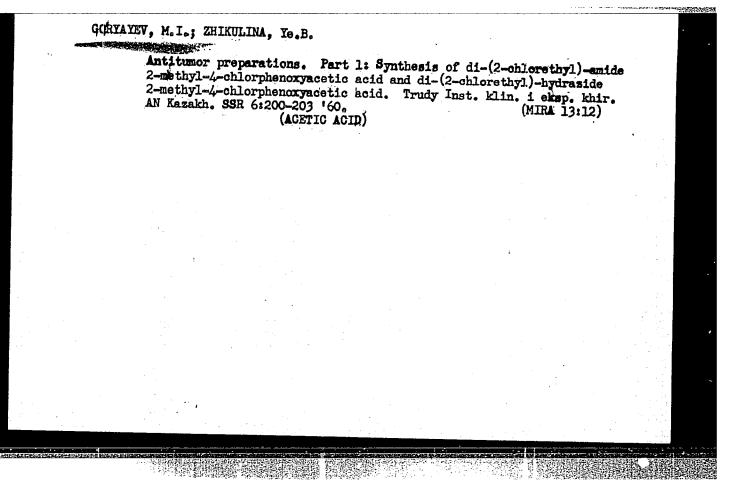
May 23, 1958

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GORYAYEV, M.I.; DEMBITSKIY, A.D.

Antitumor preparations. Part 2: Synthesis of di-(2-chlorethyl)-emide 2,4-dichlorphenoxymetic acid and di-(2-chprethyl)-amide isonisotinic acid. Trudy Inst. klin. i eksp. khir. AN Kagakh. SSR 6:204-206 60. (MIRA 13:12)

(ACETIC ACID)

(ISONICOTINIC ACID)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516410005-9"

Antitumor preparations. Part 3: Synthesis of di-(2-chlor-ethyl)bornylamine. Trudy Inst. klin. i eksp. khir. AN Kazakk, SSR 6:207209 '60. (BORNANAMINE) (BORNANAMINE)

"APPROVED FOR RELEASE: 03/13/2001

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5.5200,5.3610,5.3900

78245 sov/80-33-3-46/47

AUTHORS:

Goryayev, M. I., Sazonova, R. N., Moshkevich, S. A.,

Shabanov, I. M.

TITLE:

Brief Communication. Oxalic Method of Alkaloids Determination in Ephedra Using Permanganate Titration

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 3, pp 748-

750 (USSR)

ABSTRACT:

This is Communication IV of a series of studies on quantitative analytical methods for the determination of alkaloids. The authors developed a separative determination of ephedrine and pseudoephedrine in ephedra

plants by titration of the alkaloid oxalates with KMnO4 in acid medium. A 2% aqueous solution of oxalic

acid was added from a microburette to the mixture of alkaloids extracted from the plants with the standard method, until a neutral litmus reaction was obtained.

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The mixture was then heated slowly until complete

Brief Communication. Oxalic Method of Alkaloids Determination in Ephedra Using Permanganate Titration

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dissolution of the alkaloids. Cooling the solution to room temperature precipitated ephedrine oxalate in crystal form. The precipitate was dissolved with diluted sulfuric acid (1:100), heated to 80-90° C, and titrated while warm with 0.1N solution of $KMnO_h$.

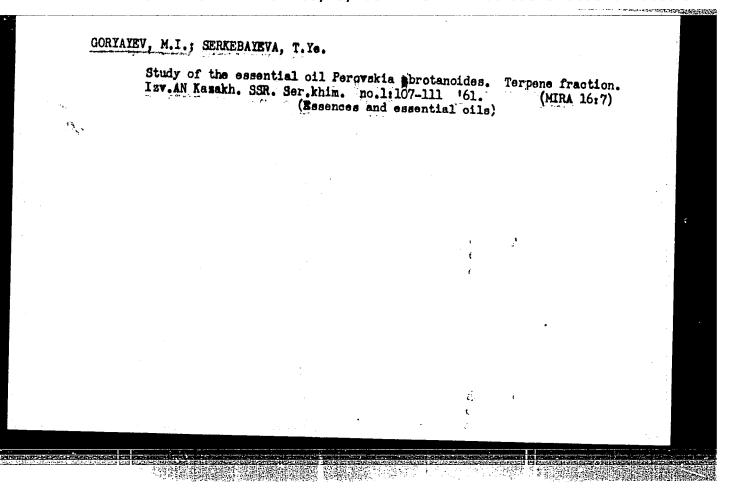
Pseudoephedrine oxalate in the filtrate was titrated in the same manner. The new method takes only 2 days as compared with 3-4 days required by the old method prescribed by GOST and based on different solubilities of the two alkaloids in petroleum ether. There are 2 tables; and 9 references, 2 Chinese, 7 Soviet.

ASSOCIATION:

Alkaloid Laboratory of the Institute of Chemical Sciences, Academy of Sciences, Kazakh SSR (Laboratoriya alkaloidov Instituta khimicheskikh nauk AN Kazakhskoy

SUBMITTED: Card 2/2

August 27, 1959



GORYAYEV, M.I.; SHARIPOVA, F.S.

Study of the high boiling fraction of the essential oil Perovskia angustifolia. Izv.AN Kazakh. SSR. Ser.khim. no.1:112-118 '61.

(MIRA 16:7)

(Essences and essential oils)

Hydrolysis kinetics of reed hemicell prom. 14 no.3:9-10 '61.	lulose. Gidroliz.	Gidroliz. i lesokhim. (MIRA 14:4)	
1. Institut khimicheskikh nauk AN Ke (Hemicullulose) (Hy	nzSSR. ydrolysis) (Re	ed (Botany))	
		<i>,</i>	
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VOLKOVA, V.S.; GORYAYEV, M.I., akademik

Antituberculosis agents. Report No.9: Synthesis of derivatives of l-amino-3-oxy-4-pyriodone-6-carpoxylic acid. Vest, An Kazakh, SSR 17 no.4138-42 Ap '61. (MIRA 14:5)

1. Akademiya nauk KarSSR (for Goryayev). (PIRIDONECARBOXYLIC ACID)

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GORYAYEV, M.I.; TOLSTINOV, G.A.

Compounds entering into the composition of essential cils. Part 1: Isomerization of ecdrese oxide. Zhur. ob. khim. 31 no. 2:644-652 F '61. (MIMA 14:2)

1. Institut khimicheskikh rank AN Kamakhskoy SSR. (Georges)

S/080/61/034/004/011/012 A057/A129

AUTHORS:

Goryayev, M. I., Tolstikov, G. A., Yel'chibekova, L. A.

TITLE:

On the preparation of monoperphthalic acid

PERIODICAL:

Zhurnal prikladnov khimii, v. 34, no. 4, 1961, 946 - 947

TEXT: In the present paper a method for preparation of monoperphthalic acid is described, based on an improvement of the method presented by E. Royals and L. Harrell (Ref. 3: J. Am. Chem. Soc., 77, 3405, 1955). Monoperphthalic acid is used, as well as perbenzoic acid, for epoxidation of unsaturated compounds. Monoperphthalic acid is usually prepared by H. Boehme's method (Ref. 1: Ber., 70, 379, 1937), but this method has some disadvantages. Royals and Harrell's method is based on mixing phthalic shhydride, 30 % hydrogen peroxide and diethylether at room temperature for 24 hours. The present authors tested this method and observed that the indicated yield of 65 % can be attained already after a time of mixing of only 6 hours. If the procedure is carried out at 30 - 35°C a yield of 65 - 70 % is obtained in 3 - 4 hours. Increasing the used hydrogen peroxide amount to a double amount makes possible to obtain monoperphthalic acid with a 63 - 65 % yield after mixing for 1 hour at 30 - 35°C. The following proce-

On the preparation of monoperphthalic acid

S/080/61/034/004/011/012 A057/A129

dure was carried out in the present experiments: After mixing the three components for a certain time at a given temperature (see table) the ethernal layer was washed 3 - 4 times with 40 % ammonium sulfate solution and dried with calcinated sodium sulfate. The amount of active oxygen was determined iodometrically. Extraction of the aqueous layer with ether increase the monoperphthalic acid yield by 4-5%. In all experiments 30 g (0.2 mole) phthalic anhydride and 200 ml ether were used. Monoperphthalic acid obtained by one of the procedures (see table) was used for the oxidation of cedrene by the following method 40.8 g (0.2 mole) of cedrene was oxidized at 0°C in the ethereal solution of monoperphthalic acid, containing 3.50 g (0.22 mole) of active oxygen. The mixture was left to stand at 0°C for 24 hours, the precipitated phthalic acid was filtered off and washed with ether, then the ethereal solution was washed several times with 5 % NaOH solution and subsequently with water, and was dried with sodium sulfate. After vacuum distillation 39.7 g (90 %) of cedrene oxide with a boiling point of 121 - 121.5°C (5 mm), $n_{\rm D}^{\rm CO} = 1.4962$, $d_{\rm T}^{\rm CO} = 1.0032$, $[CL]_{\rm CO}^{\rm CO} = 1.20$ was obtained. There is 1 table and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc.

SUPMITTED: July 16, 1960

Card 2/3

GORYAYEV, M.I., akademik; TOLSTIKOV, G.A.

Synthesis of β-cedrene. Dokl. AN SSSR 139 no.2:363-366 J1 '61.

(MIRA 14:7)

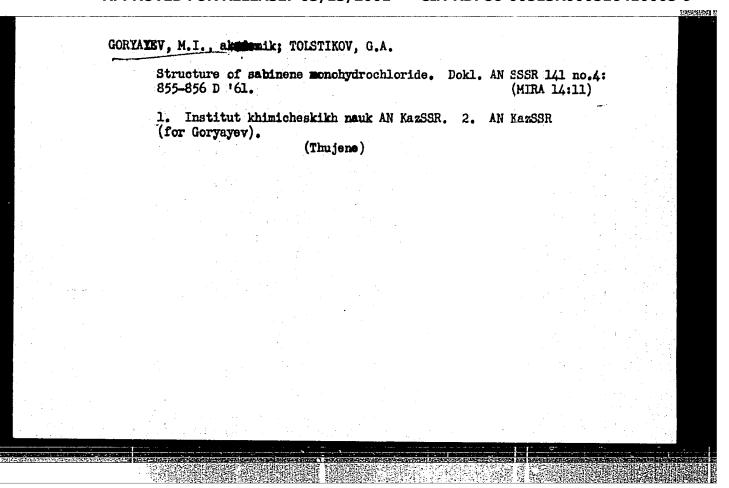
1. Institut khimicheskikh nauk AN KazSSR. 2. AN Kausser (for Goryayev).

(Cedrene)

POTAPOV, V.M.; GORYAYEV, M.I., akademik; TOISTIKOV, G.A.; TERENT'YEV, A.F.

Rotatory dispersion of cedrane series compounds. Dokl. AN SSSR
140 no.6:1341-1344 0 '61. (MIRA 14:11)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
2. AN Kazakhskoy SSR (for Goryayev). 3. Chlen-korrespondent AN SSSR (for Terent'yev). (Cedrane)



CORYAYEV, M.I.; BAZALITSKAYA, V.S.; POLYAKOV, P.P.; MENZHULINA, N.A., red.; KHUDYAKOV, A.G., tekhn. red.

[Chemical composition of wormwoods]Khimicheskii sostav polynei.
Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1962, 151 p.

(MIRA 16:3)

(Wormwood) (Plants—Chemical analysis)

GORYAYEV, M.I.; SEITOV, Z.S.; DENISENKO, L.Ye.

Drying by sublimation pure cultures of fodder and wine yeasts.
Trudy Inst.mikrobiol.i virus.AN Kazkah.SSR 6:171-173 '62.

(YEAST-DRYING) (FREEZE-DRYING)

(YEAST-DRYING) (FREEZE-DRYING)

IBRAYEV, G.Zh.; GORYAYEV, M.I.

Separation of furfurole by gas-liquid chromatography. Gidroliz.
i lesokhim.prom. 15 no.8125-26 '62.9 (MIRA 15:12)

1. Institut khimicheskikh nauk AN KazSSR.
(Furaldehyde) (Gas chromatography)

Study of the substances entering into the composition of essential oils. Part 2: Condensation of sabinene with diazoacetic ester. Zhur. ob. khim. 32 no.1:310-312 Ja '62. (MIRA 15:2) 1. Institut khimicheskikh nauk AN Kazakhskoy SSR. (Sabinene) (*cetic acid) (Essences and essential oils)

RADAKOV, G.A.; GORYAYEV, M.I.; TOISTIKOV, G.A.

Catalytic transformations of terpenes. Part 9: Isomerization of sabinene by means of metatitanic acid. Zhur. ob. khim. 32 no.1: 312-315 Ja '62. (MIRA 15:2)

1. Institut khimicheskikh neuk AN Kazakhskoy SSR. (Sabinene) (Titanic acid)

S/079/62/032/003/006/007 D204/D302

AUTHORS:

Goryavev. M.I. and Tolstikov, G.A.

TITLE:

Study of compounds occurring in volatile oils. IV. Reduc-

tion of the A-oxide of cedrene (A)

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 3, 1962, 997-999

TEXT: Reduction of A with LiAlH₄ (in 300% excess) gave, after boiling for 24 hours, 35% of pseudocedrol and some isocedrenol. Catalytic hydrogenation of A on skeletal Ni or Adams! Pt did not proceed at 40°C and atmospheric pressure. At 110°C and under a pressure of 130 atm of H₂,

A yielded 66% of isocedranol. Full experimental details are given. There are 8 references: 6 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: A. Moor, J.Am.Chem.Soc. 78, 1173, (1956).

ASSOCIATION:

Institut khimicheskikh nauk An Kaz. SSR (Institute of Chemi-

cal Sciences AS Kazakhskaya SSR)

SUBMITTED:

February 7, 1961

Card 1/1